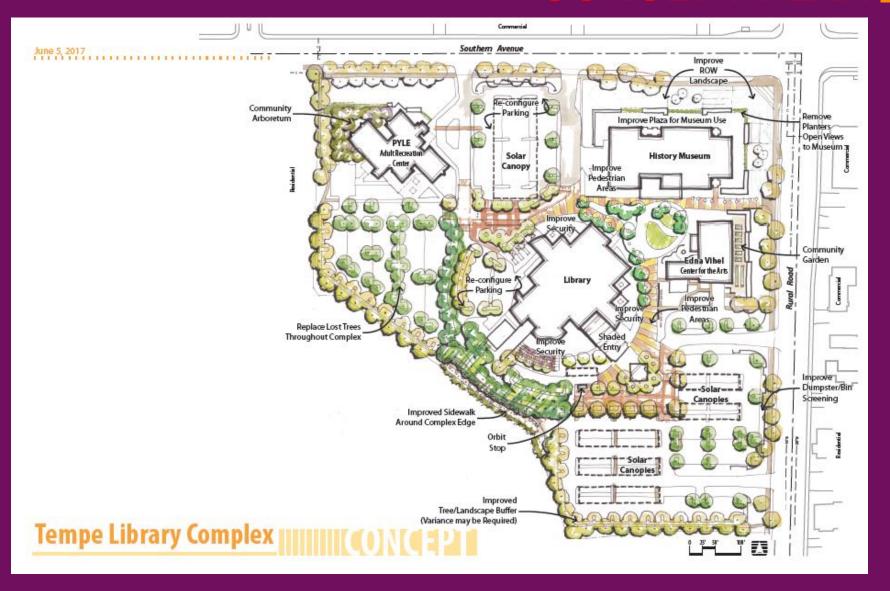


CITY OF TEMPE LIBRARY & COMMUNITY COMPLEX MASTER PLAN

PUBLIC MEETING June 5, 2017



CONCEPT PLAN



HARDSCAPE

Map 3: Hardscape and Accessibility

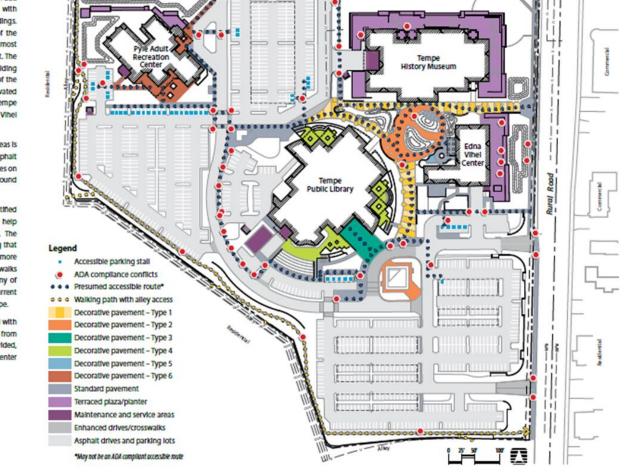
Hardscape and Accessibility

Of the approximately 21.5 acres that make up the TL+CCC campus, over 15 acres are impervious surfaces, with approximately 12 acres of hardscape and 3 acres of buildings. Parking lots and other asphalt make up the majority of the impervious surface, with approximately 9.5 acres, or almost 45% of the site, dedicated primarily to vehicular pavement. The hardscape areas surrounding the Tempe Public Library building are about 1.5 acres of the overall site, with the majority of the remaining hardscape comprising the outdoor spaces, elevated terraces and under-utilized areas that surround the Tempe History Museum, Pyle Adult Recreation Area, and Edna Vihel Center.

The general distribution and composition of hardscape areas is illustrated in the adjacent figure. In addition to common asphalt and concrete, there are a number of decorative paving types on the campus. The majority of decorative paving occurs around the library or within the Frank and Nancy Piencher Piaza.

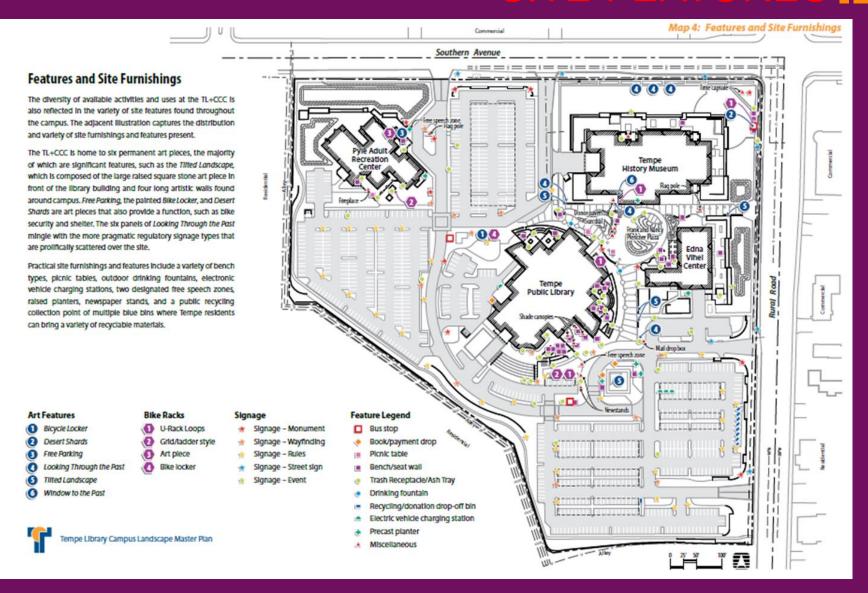
Americans with Disabilities Act (ADA) routes are also identified on the figure, with known accessibility issues marked to help guide decisions regarding future improvement needs. The most common accessibility issues include existing paving that is being heaved by trees or other subsurface lifting with more than 1/2* elevation difference between surfaces, and crosswalks that lead to curbs without curb ramps. In addition, many of the existing curb ramp styles are non-compilant with current standards, often due to excessive cross or longitudinal slope.

It is also worth noting that the outdoor spaces associated with the various buildings on the campus lack accessibility from outside. This may be due to stair-only access being provided, or access to the plaza space requiring all potential users enter through the building first.





SITE FEATURES



SITE LIGHTING

Site Lighting

Site lighting on the TL+CCC was inventoried by fixture type and location, illustrated in the figure at right. Vehicle oriented lighting is reasonably distributed throughout the primary circulation routes of the campus, as is the pedestrian lighting in the Frank and Nancy Piencner Plaza. Other areas of the campus, such as the recessed courtyards, street frontage terraces, and pedestrian loop pathway, have limited lighting, which could be improved to provide better safety as well as discourage undestrable use of those areas.

The styles of lighting fixtures used appear to reflect different periods of improvement and repair projects. For example, the lighting inventory identified three different pole lighting types. The first appears to have been original to the parking lot construction (Pole light – Type 1), while the other two types appear to have been added with the xeriscape improvements in and around the Frank and Nancy Piencner Plaza (Pole light – Type 2) and to distinguish the front entrance to the Tempe Public Library building (Pole light – Type 3). The solar shade canoples in the parking lots also include a significant number of lights.





TREES + LANDSCAPE

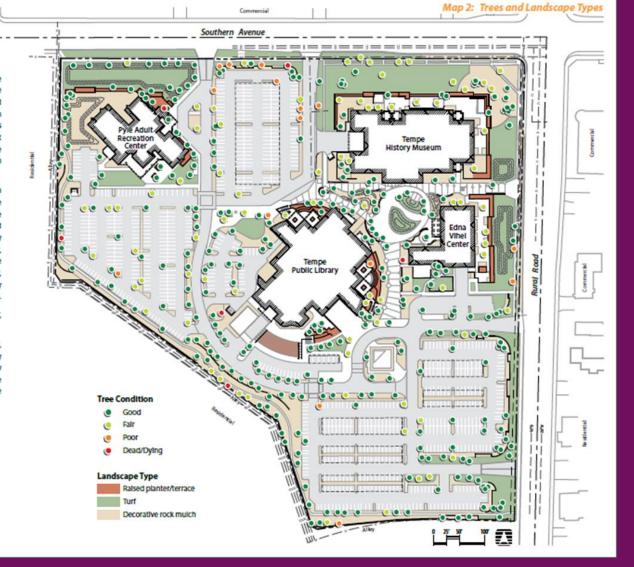
Tree Conditions and Landscape Types

The existing trees at the TL+CCC were inventoried using the Arizona Tree Map I-Tree inventory tool, which includes the assessment of tree species, distribution, size, and health, and also allows for estimates of the benefits provided by the urban forest. Appendix Aincludes locations and distribution by species of the nearly 400 inventoried trees. The five tree species that make up more than two-thirds of the total trees on campus are Evergreen Ash, African Sumac, Oilive, Afghan Pine, and Mexican Fan Palm.

This information was used to help identify the general health of the urban forest at the TL+CCC, which is illustrated in the adjacent figure. As can be seen in the figure, the majority of the trees on the campus are relatively healthy, with either a good or fair tree condition rating. However, it is also noted that many of these trees are very mature and, while considered healthy, may be closer to the end of their healthy life span. These mature trees may soon decline in health rather than mature into larger, healthier trees, however, their value as mature trees is certainly an asset to invest in for their continued health wherever possible.

This illustration also shows the general distribution of turf, xeriscape in rock mulch areas, and raised planters.

The majority of understory plant materials are past their prime, with evidence that much of the original plantings have likely reached maturity, died, and have not been replaced with new material. Plantings under the new solar shade canopies have either been removed or, due to the species not being shade tolerant, are in decline.





Guiding Principles

- Cultivate Collective Action
- Expand Shade to Maximize Urban Cooling
- Improve Walkability Equitably
- Support Biodiversity & Habitat
- Use Resources Wisely
- Enhance Property Values
- Promote a Healthy Community
- Enhance Community
 Beautification & Livability
- Right Tree, Right Place













https://watershedmg.org





GREEN INFRASTRUCTURE

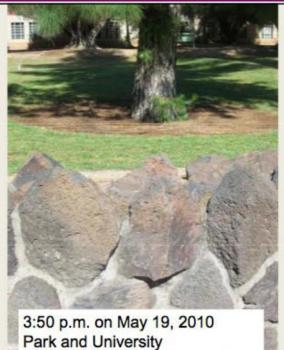
In Sun:

Grass: 91.0° F

Soil: 91.0° F

Litter: 101.1° F

Rock: 131.8° F



In Shade:

Grass: 64.1° F

Soil: 56.2° F

Litter: 60.6° F

Rock: Unmeasured; nearby Cement 76.9° F

Livability/Quality of Life

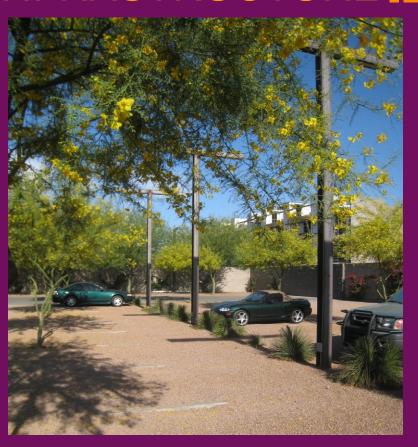
- Shade
- Traffic Calming
- Crime Reduction
- Community Building
- Increased Property Values

https://watershedmg.org

GREEN INFRASTRUCTURE

Environmental Benefits

- Flood Control
- Reduce Urban Heat Island
- Carbon Sequestration
- Water Quality
- Remove Pollutants





EDUCATION











PLACEMAKING



















GARDENS





KIDS PLAY















OPPORTUNITIES

- INTEGRATE 'PARK-LIKE' OPTIONS IN OPEN SPACE
- MAXIMIZE SHADE
- COLLECT RUNOFF WATER
- REDUCE HARDSCAPE
- REDUCE HEAT
- IMPROVE WAYFINDING
- CONNECT WITH NATURE
- CREATE A GREAT PLACE

SCHEDULE

Library and Community Center Complex Landscape Master Plan Schedule

	Apr-17			7 May-17			Jun-17			Jul-17			Aug-17				Sep-17			Oct-17			Nov-17			Dec-17													
3	3	10	17	24	1	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27	4	11	18	25
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	Jan	-18			Feb	-18			M	lar-:		Apr-18				
1	8	15	22	29	5	12	19	26	5	12	19	26	2	9	16	23
	Со	nst	ruc	tio	1											



INSPIRE CREATIVITY











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